

Water-Data Report 2007

12158040 TULALIP CREEK NEAR TULALIP, WA

Puget Sound Basin
Puget Sound Subbasin

LOCATION.--Lat 48°04'07", long 122°17'12" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.22, T.30 N., R.4 E., Snohomish County, WA, Hydrologic Unit 17110019, Tulalip Indian Reservation, on left bank 200 ft upstream from highway crossing, 0.15 mi east of Tulalip and 0.30 mi above mouth.

DRAINAGE AREA.--15.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1974 to September 1977, November 2000 to current year. Published as "at Tulalip" 1974-77.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 56.99 ft above NGVD of 1929, from precision Global Positioning System (GPS). October 1974 to September 1977, water-stage recorder, at site 600 ft upstream from highway crossing, at different datum.

REMARKS.--Records good, except for discharges below 15 ft³/s, and above 80 ft³/s, which are fair, and May 1 to 11, which are poor. Some regulation at outlet of Lake Shoecraft, drainage area 6.12 mi², and natural regulation in lakes and ponds in basin. Minor diversions above station for domestic use from East Branch Tulalip Creek. Tulalip Fish Hatchery diverts entire flow at times from East Branch Tulalip Creek, and Tulalip Creek above East Branch for use in hatchery. Water is returned to creek above station. Chemical analysis November 1974 to March 1977, water temperature October 1974 to March 1977.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--9 years (water years 1975-77, 2002-07), 11.7 ft³/s, 10.35 in/yr, 8,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136 ft³/s, Dec. 17, 2001, gage height, 97.81 ft; minimum discharge, 2.0 ft³/s, Aug. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 97 ft³/s, Dec. 25, gage height, 97.50 ft; minimum discharge, 3.9 ft³/s, July 11, 12, 16, 17, gage height, 96.49 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.0	6.8	14	21	18	21	18	14	5.9	5.2	5.1	6.0
2	5.2	7.9	14	21	18	21	20	15	5.8	5.1	5.0	5.7
3	5.1	9.3	12	25	18	23	21	13	5.7	4.8	5.1	5.6
4	5.1	11	12	26	19	21	18	11	5.7	4.8	5.2	6.8
5	5.0	15	13	25	19	20	16	9.9	6.5	4.8	5.2	6.4
6	5.1	20	13	26	19	20	15	9.3	6.6	4.7	5.1	6.2
7	5.3	22	12	28	19	20	14	9.2	6.3	4.7	5.4	5.9
8	5.6	19	11	29	19	20	14	8.7	6.0	4.6	5.8	5.7
9	5.6	14	11	27	19	19	28	8.1	6.9	4.8	5.6	5.5
10	5.4	17	11	26	18	19	39	7.9	7.5	4.7	5.5	5.5
11	5.3	19	14	25	18	21	20	7.6	6.5	4.6	5.4	5.6
12	5.4	14	18	23	18	20	16	7.9	6.3	4.6	5.4	5.7
13	5.5	22	16	21	18	20	15	7.9	5.9	4.8	5.3	6.1
14	5.6	16	18	21	18	19	14	7.9	6.2	4.9	5.1	6.0
15	6.8	15	28	21	20	18	13	7.5	7.0	4.7	5.1	6.0
16	11	20	19	21	19	19	15	7.1	7.2	4.6	5.2	6.4
17	7.5	14	18	21	19	19	14	7.0	7.9	5.1	5.3	7.2
18	6.7	12	19	23	21	21	13	6.7	8.2	5.9	5.2	7.4
19	11	12	18	25	20	20	13	6.8	7.1	6.6	5.9	9.0
20	8.9	13	17	24	21	20	12	7.9	6.2	6.5	6.9	7.4
21	7.3	20	20	22	21	20	12	15	5.9	7.6	6.9	7.3
22	6.7	18	20	21	20	20	13	11	5.8	7.1	6.1	7.3
23	6.6	14	20	21	20	20	12	8.6	5.7	6.9	5.6	7.1
24	6.9	12	22	21	20	22	12	7.8	5.6	6.3	5.6	7.2
25	7.3	11	63	21	20	26	13	7.4	5.9	5.8	5.7	7.1
26	6.9	14	34	21	20	23	13	7.1	5.3	5.5	7.4	7.2
27	6.7	19	70	20	20	21	12	7.0	5.4	5.4	6.2	7.3
28	6.7	14	39	20	20	20	12	6.8	5.4	5.4	5.9	11
29	7.1	11	28	20	---	20	11	6.6	5.6	5.3	5.7	5.7
30	7.1	11	24	20	---	19	10	6.2	5.4	5.4	5.5	6.7
31	6.8	---	22	19	---	19	---	5.9	---	5.2	5.6	---
Total	202.2	443.0	670	705	539	631	468	269.8	187.4	166.4	174.0	200.0
Mean	6.52	14.8	21.6	22.7	19.2	20.4	15.6	8.70	6.25	5.37	5.61	6.67
Max	11	22	70	29	21	26	39	15	8.2	7.6	7.4	11
Min	5.0	6.8	11	19	18	18	10	5.9	5.3	4.6	5.0	5.5
Ac-ft	401	879	1,330	1,400	1,070	1,250	928	535	372	330	345	397
Cfsm	0.42	0.96	1.40	1.48	1.25	1.32	1.01	0.57	0.41	0.35	0.36	0.43
In.	0.49	1.07	1.62	1.70	1.30	1.52	1.13	0.65	0.45	0.40	0.42	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	8.34	11.8	16.5	18.1	17.0	16.8	16.0	9.86	7.47	5.70	6.01	6.17
Max	10.8	16.1	32.6	26.8	26.4	23.3	27.0	12.8	10.5	7.18	9.18	7.27
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(1975)	(1976)	(2002)	(2001)	(2002)	(1976)	(1977)
Min	5.69	8.60	9.05	8.06	7.63	11.0	8.24	7.50	5.32	3.66	4.31	5.02
(WY)	(1975)	(1977)	(1977)	(1977)	(1977)	(2005)	(2004)	(2004)	(2003)	(2003)	(2003)	(2006)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1975 - 2007	
Annual total	4,441.5		4,655.8			
Annual mean	12.2		12.8		11.7	
Highest annual mean					16.1	2002
Lowest annual mean					8.75	1977
Highest daily mean	70	Dec 27	70	Dec 27	99	Dec 17, 2001
Lowest daily mean	3.9	Sep 3	4.6	Jul 8	3.1	Jul 23, 2003
Annual seven-day minimum	4.0	Sep 1	4.7	Jul 6	3.3	Jul 23, 2003
Annual runoff (ac-ft)	8,810		9,230		8,500	
Annual runoff (cfsm)	0.790		0.828		0.762	
Annual runoff (inches)	10.73		11.25		10.35	
10 percent exceeds	21		21		22	
50 percent exceeds	9.7		11		9.1	
90 percent exceeds	5.1		5.3		5.2	

